

SEPARATOR FOR ALKALINE SECONDARY BATTERY

Patent Number: JP10144282
Publication date: 1998-05-29
Inventor(s): AIZAWA WAKANA; HYODO KENJI; IDA TOMONORI; SHIGEMATSU TOSHIHIRO
Applicant(s):: MITSUBISHI PAPER MILLS LTD
Requested Patent: ☐ JP10144282
Application Number: JP19970177016 19970702
Priority Number(s):
IPC Classification: H01M2/16 ; D04H1/48 ; D21H11/00 ; D21H15/02
EC Classification:
EC Classification:
Equivalents:

Abstract

PROBLEM TO BE SOLVED: To provide a separator, which is easy to be handled at the time of manufacturing and which has the excellent electrolyte holding property and the sufficient ventilating property, by utilizing a non-woven fabric, which is mainly composed of polyolefin fiber including microfibrillated cellulose, as a separator for alkaline secondary battery.

SOLUTION: As a separator for alkaline secondary battery, a non-woven fabric, which is mainly composed of polyolefin group fiber, is utilized, and in the case where this non-woven fabric includes the microfibrillated cellulose, an excellent result can be obtained. In this case, a microfibrillated cellulose means the fine fiber, which is obtained by fibrillating the cellulose fiber having a high degree of crystallization. The microfibrillated cellulose is desirably included at 0.5-30wt.% in relation to the all weight of the non-woven fabric. In the case where the microfibrillated cellulose is included at 0.5wt.% or less, strength of the non-woven fabric and hydrophilic characteristic are remarkably lowered, and in the case where the microfibrillated cellulose is included at 30wt.% or more, ventilation of the non-woven fabric is lowered.

Data supplied from the esp@cenet database - I2